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## FOREIGN INTELLIGENCE.

GERMANY.—*Gotha Mutual Life Assurance Bank*.—Extract from the report for 1856.

I.—*Assurances.*

## Proposals:—

	Persons.	Amount.
Proposals made in the course of 1856 . . . .	1,910	£395,543
Standing over from 1855 . . . . .	49	10,671
	<u>1,959</u>	<u>£406,214</u>

The accepted of these proposals were—

	Persons.	Amount.		
Of persons who were not yet assured . . . . .	1,314	£255,400		
Of persons who were already assured . . . . .	286	56,471		
	<u>1,600</u>	<u>£311,871</u>		
Refused or reduced by the Society . . . . .	297	81,386		
Withdrawn, not completed, or reduced by the parties . . . . .	25	5,214		
Standing over for consideration at the end of the year . . . . .	37	7,743		
	<u>1,959</u>	<u>£406,214</u>		

## Amount of assurances:—

At the beginning of the year . . . . .	19,363	£4,412,671
New assurances during the year . . . . .	1,314	311,871
	<u>20,677</u>	<u>4,724,542</u>

Cancelled—	Persons.	Amount.		
By death . . . . .	410	£100,371		
By surrender, running off, &c. . . . .	169	44,257		
	<u>579</u>	<u>144,628</u>		

In force at the end of the year . . . . .	20,098	£4,579,914
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The clear increase was therefore 735 persons, with £167,243.

## Classes of assurances:—

Whole life—	Persons.	Sums assured.	Yearly premium.
Payable at death, or on attaining the 90th year of age . . . . .	19,662	£4,478,486	£155,650
Payable at death, or at any younger age than the 90th year . . . . .	202	51,457	2,767
	<u>19,864</u>	<u>4,529,943</u>	<u>158,417</u>
Survivorships . . . . .	50	11,371	354
For terms of years . . . . .	184	38,600	795
	<u>20,098</u>	<u>£4,579,914</u>	<u>£159,566</u>

## According to the sex of assured—

	Persons.	Amount.
Males . . . . .	18,902	£4,345,914
Females . . . . .	1,196	234,000
	<u>20,098</u>	<u>£4,579,914</u>

According to the ages of the assured and the amount of assurances :—

AGE.	Amount of Assurances.											TOTAL.		
	£28½—£142½.	£157—£285.	£300—£428.	£443—£570.	£586—£714.	£728—£857.	£871—£1,000.	£1,014—£1,143.	£1,157—£1,286.	£1,300—£1,429.	£1,714.		£2,143.	
	Number of Persons.													
												Persons.	Sums Assured.	
15—20	6	..	..	..	..	1	..	..	..	..	..	7	1,357	
21—25	78	4	4	..	1	..	..	..	..	..	..	88	12,314	
26—30	434	89	24	11	8	5	..	2	..	..	..	577	98,314	
31—35	1,166	304	106	44	52	23	..	6	..	..	..	1,719	354,086	
36—40	1,715	519	158	116	72	44	4	11	5	40	..	2,685	611,757	
41—45	1,812	628	213	101	81	39	5	13	1	40	3	2,936	664,614	
46—50	2,004	718	240	126	82	52	12	16	..	31	..	3,281	730,257	
51—55	1,884	693	231	144	90	57	10	22	2	38	1	2	3,174	749,115
56—60	1,446	565	192	119	70	38	12	33	5	28	..	..	2,508	607,628
61—65	953	366	124	83	42	38	7	9	..	11	..	1	1,634	377,729
66—70	505	181	68	59	32	18	5	12	2	9	..	..	891	225,614
71—75	217	94	39	21	15	10	4	6	1	2	..	..	409	105,872
76—87	119	41	6	14	2	3	..	4	..	..	..	..	189	41,257
Total..	12,339 persons, £1,276,638.	4,202 persons, £1,036,472.	1,405 persons, £563,272.	838 persons, £466,843.	547 persons, £386,571.	328 persons, £279,786.	59 persons, £37,657.	134 persons, £152,057.	16 persons, £19,772.	219 persons, £32,714.	1 person, £1,714.	10 persons, £21,428.	20,098	4,579,914

The average age of the assured was, at the beginning of the year, 48 years 9 months; and at the end of the year, 48 years 11 months. The average amount of the sum assured on each life was at the beginning and at the end of the year £227. 17s.

Deaths:—

Age.	Assured in the course of 1856.	Should die, according to the Tables used.	Died.	Plus.	Minus.	Number of the lives exposed to the risk for a whole year.	Mortality per cent.
15—25	99	0·67	1	0·33	..	76	1·32
26—30	595	5·04	1	..	4·04	502	0·20
31—35	1,756	17·55	7	..	10·55	1,575	0·45
36—40	2,731	31·13	16	..	15·13	2,571	0·62
41—45	2,987	36·69	24	..	12·69	2,877	0·83
46—50	3,354	51·63	52	0·37	..	3,268	1·59
51—55	3,254	65·45	65	..	0·45	3,209	2·03
56—60	2,586	66·41	58	..	8·41	2,554	2·27
61—65	1,705	56·38	68	11·62	..	1,698	4·00
66—70	936	42·21	44	1·79	..	935	4·71
71—75	455	32·07	45	12·93	..	455	9·89
76—87	219	32·50	29	..	3·50	219	13·24
Total..	20,677	437·73	410	27·04	54·77	19,939	2·06 at the average.

Of the 410 persons on whose life the total sum of £100,371 was assured, only 404 (for £98,343) were entitled to full payment. Five assured (for £1,386), who had died by suicide, left to their representatives no claim to the sum assured, but only to a return out of reserved fund. This return was, in one case of suicide which was "*non compos mentis*," the full value of the policy; in four cases of intentional suicide, the usual purchase price. Another assured person, who had shortened his life by intoxication, left only a similar claim.

The proportion of deaths was 373 males and 37 females. In the course of 1856, 19,430 males and 1,247 females being assured, the rate of mortality of the former was 1·92 per cent., of the latter 2·97 per cent.

An accurate table in the appendix of the report shows, in the case of every death, the age of the assured at the date of the assurance, the age at his death, and the cause of the death. There died 57 by phthisis, 47 by inflammation of the respiratory organs, 46 by apoplexy, 30 by nervous fever, 27 by dropsy, 26 by marasmus senilis, 5 by suicide, 5 by fatal accident.

## II.—Cash Account for the year 1856.

Dr.	£.
Invested capital at the end of 1855 . . . . .	1,166,020
Amount of new premiums for 1855 . . . . .	10,774
" renewal premiums for 1855 . . . . .	149,753
" premiums paid in advance . . . . .	112
" commuted premiums and extra premiums . . . . .	1,215
Interest on loans . . . . .	46,964
Dividends unclaimed . . . . .	239
Profit from agio on money, existing bonds, bills of exchange, &c. . . . .	142
House rent, deducting all charges . . . . .	100
Extra receipts for deposits, &c. . . . .	478
Total . . . . .	£1,375,797
Cr.	£.
Paid 4 claims for the year 1854 . . . . .	1,014
" 95 " " 1855 . . . . .	24,207
" 330 " " 1856 . . . . .	77,257
" 4 claims fallen due in lifetime . . . . .	571
Dividends to the assured for the year 1850 . . . . .	347
Dividends to the assured for the year 1851 . . . . .	43,525
For policies purchased . . . . .	1,556
Agents' commission . . . . .	3,761
Expenses of management . . . . .	4,832
Extraordinary expenses . . . . .	514
Invested capital at the end of 1856 . . . . .	1,218,213
Total . . . . .	£1,375,797

## III.—Balance-sheet for the year 1856.

Dr.	£.
83 claims unsettled . . . . .	23,514
Unclaimed dividends for year 1851 . . . . .	592
Deposits received in cash . . . . .	4,525
Reserve, or the value of all existing policies at the 31st Dec., 1856, without any regard to the premiums or parts of premiums paid since this date . . . . .	910,870
Gross amount of premiums in advance for the time after the 31st December, 1856 . . . . .	76,797
Surplus (guarantee fund)—	
Surplus of 1852-1855 . . . . .	£151,488
Surplus of 1856 . . . . .	50,427
Total . . . . .	201,915
Total . . . . .	£1,218,213

Cr.	£.
Cash in hand . . . . .	8,249
Mortgages . . . . .	1,120,929
Advances on policies . . . . .	50,591
Interest due . . . . .	10,202
Value of the Society's house . . . . .	4,732
Balances due by agents . . . . .	17,301
Balances at bankers . . . . .	6,209
Total . . . . .	£1,218,213

The guarantee fund comprises, according to the former balance-sheets—

	£.
The residue of the surplus of 1852 . . . . .	23,171
The surplus of 1853 . . . . .	38,895
" 1854 . . . . .	47,418
" 1855 . . . . .	42,005
" 1856 . . . . .	50,426
Total . . . . .	£201,915

In the course of 1857 the surplus of 1852-53 is divided among the assured who have paid premiums in 1852. It consists of—

	£.
The residue of surplus of 1852 . . . . .	23,171
Part of the surplus of 1853, corresponding to the premiums paid in 1852, which are due in 1853 . . . . .	18,983
Total . . . . .	£42,154

The premiums for whole life assurances and survivorships paid in 1852 being £140,512, the surplus of £42,154 gives a dividend of 30 per cent. This dividend is made in the course of 1857—on all existing policies, by way of reduction of premiums; and on all policies cancelled by death or surrender, by payment in cash on bonds, which are issued at the extinction of the policies.

The investments on loans and mortgages are—

£.	
1,049,381	first mortgages on land, of at least double the value.
25,422	" " house property, of at least double the value, and insured against fire.
24,208	in bonds of public Loan Societies, based on land securities.
12,729	in bonds of public corporations, whose management is under the control of Government.
9,189	on mortgages of stocks.
£1,120,929	Total.

## CORRESPONDENCE.

### ON THE METHOD OF VALUING WHOLE-TERM ASSURANCES ON SINGLE LIVES BY CLASSIFICATION.

To the Editor of the Assurance Magazine.

SIR,—In endeavouring to put into practice the plan proposed by Mr. Samuel Brown (one of the Vice-Presidents of the Institute of Actuaries), in an excellent paper read before that Institute in March, 1854, one or